

DUSEL Initial Suite of Experiments (ISE) ¹	Experimental Cavity Size (m ²) ^{2a}	Required U/G Support Space (m ²) ^{2b}	Minimum Depth (mwe) ³	Approximate Construction Start Date for "Generations" or Experiments ⁴
GeoBiology				
Biology Observatory	50	200	6400	~ 2014
Pristine Fracture Zone		300	6400	~ 2016
Intermediate Bio/Geo Drilling	50	300	4100	~ 2011
Deep Bio/Geo Drilling	50	300	7000	~ 2015
Deep Engineering and Excavation Research Facility				
Cavity Engineering	200	100		
Excavation Research (TBM)	400	200	4100	~ 2011
Excavation Research (Drilling)	200	100		
Cavity Engineering	200	100	6400	~ 2016
Excavation Research (TBM)	400	200		
Excavation Research (Drilling)	200	100		
Scale Effects Experiment				
Run-of-Mine Fracture Characterization	50	50		
State-of-Stress and Deformation Research	50	50	4100	~ 2011
Multiphase Fluid Flow Research	50	50		
Run-of-Mine Fracture Characterization	50	50		
State-of-Stress and Deformation Research	50	50	6400	~ 2016
Multiphase Fluid Flow Research	50	50		
Seismic Array - surface	1000		100	~ 2008
Seismic Array - 3800	1000	10	3200	~ 2009
Active Processes Laboratory				
Transparent Earth (Shallow)		200		
Transparent Earth (Deep)	200	100		
THMCB (Chemical Migration)	200	100	4100	~ 2011
THMCB (Multiphase Migration)	200	100		
Fracture Processes Facility	1000	200		
Transparent Earth (Deep)	200	100		
THMCB (Chemical Migration)	200	100	6400	~ 2016
THMCB (Multiphase Migration)	200	100		
Fracture Processes Facility	1000	200		
CO ₂ Sequestration and Flow	bore holes		Various	~ 2011
Low Background Counting				
Prescreening array, ICPMS & NAA Assay Facility	50	100	230	~ 2011
Gamma, Beta, Alpha, Whole Body Assays and Radon Emanation Measurements	200	100	4100	~ 2011
Materials Storage				
	150	230		~ 2013
	150	4100		~ 2011
	150	6400		~ 2013
Ultralow Background Materials Processing				
Copper Facilities including Ultraclean Machine Shop	350	150	4100	~ 2011
Education and Outreach				
Shallow Lab	250	100	230	~ 2013
Intermediate Depth Lab	100	100	4100	~ 2013
Prototyping and R&D				
	500	500	230	~ 2013
	250	500	4100	~ 2015
	250	500	6400	~ 2017